



LC82210, 82210L

Motion JPEG Codec

Preliminary

Overview

The LC82210 is a JPEG encoder/decoder that handles motion JPEG. When encoding, the LC82210 accepts an A/D converter generated digital video input signal and encodes that signal in real time. When decoding, the LC82210 decodes a compressed decoded signal and produces a digital video signal that can be directly input to a D/A converter.

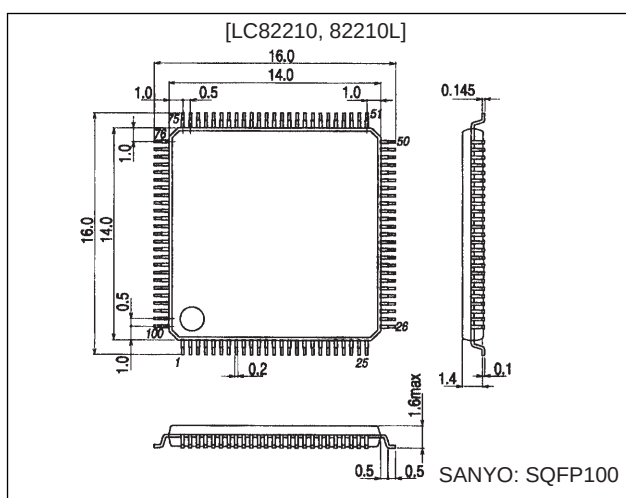
Features

- Encoding/decoding based on the JPEG standard
- The image size can be set arbitrarily.
- I/O image format $Y : U : V = 4 : 2 : 2$
- JPEG format $Y : U : V = 4 : 2 : 2$ or $Y : U : V = 4 : 1 : 1$
- Process 640×480 images 30 frames per second
- Memory control function for the image memory used for display, capture, and other image functions
- Supports the use of either 1M, 2M, 4M, $4M \times 2$ or 16M bit of DRAM for image memory.
- Supports fixed compression ratio encoding.
- Image memory can be accessed by external systems.
- Image memory compression function
- Supports a function for compressing/expanding part of an image.
- Supports both x86 and 68xx family CPUs. Also supports DMA transfers of compressed data.
- Low power mode
- Power-supply voltage: 3.3 V (internal) 5 V (pin) : LC82210
3.3 V (single) : LC82210L

Package Dimensions

unit: mm

3181B-SQFP100



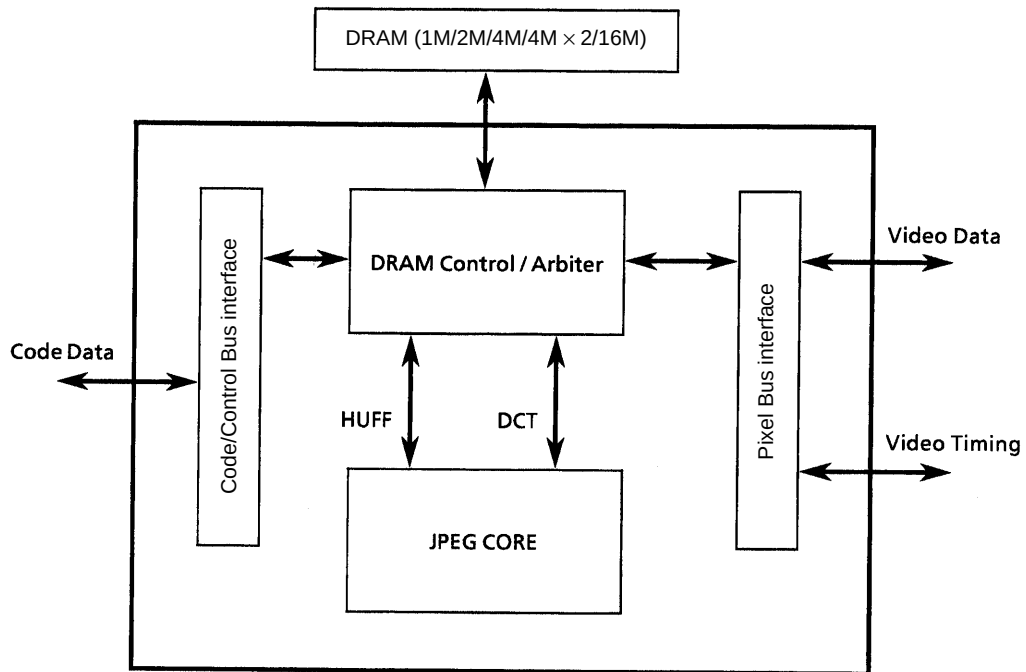
- No products described or contained herein are intended for use in surgical implants, life-support systems, aerospace equipment, nuclear power control systems, vehicles, disaster/crime-prevention equipment and the like, the failure of which may directly or indirectly cause injury, death or property loss.
- Anyone purchasing any products described or contained herein for an above-mentioned use shall:
 - ① Accept full responsibility and indemnify and defend SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors and all their officers and employees, jointly and severally, against any and all claims and litigation and all damages, cost and expenses associated with such use:
 - ② Not impose any responsibility for any fault or negligence which may be cited in any such claim or litigation on SANYO ELECTRIC CO., LTD., its affiliates, subsidiaries and distributors or any of their officers and employees jointly or severally.
- Information (including circuit diagrams and circuit parameters) herein is for example only; it is not guaranteed for volume production. SANYO believes information herein is accurate and reliable, but no guarantees are made or implied regarding its use or any infringements of intellectual property rights or other rights of third parties.

This catalog provides information as of January 1998. Specifications and information herein are subject to change without notice.

SANYO Electric Co.,Ltd. Semiconductor Bussiness Headquarters
TOKYO OFFICE Tokyo Bldg., 1-10, 1 Chome, Ueno, Taito-ku, TOKYO, 110-0005 JAPAN

13098HA (OT) / 62096HA (OT) No. 5414-1/2

Block Diagram



Application System Example

Digital Camera / Video System

